ELSEVIER

European Journal of Operational Research 89 (1996) 672–674

EUROPEAN
JOURNAL
OF OPERATIONAL
RESEARCH

Contents Volume 89

1 Optimization models for salesforce compensation (Invited Review)
S. Albers

18 Performance assessment in higher education in Britain
J. Johnes

34 State realization with exogenous variables – A test on blast furnace data
H. Saxén and R. Östermark

53 Piecewise affine approximations for the control of a one-reservoir hydroelectric system
N. Drouin, A. Gautier, B.F. Lamond and P. Lang

70 Team coordination in decision support projects
G.N. Mentzas

86 Multi-level, single-machine lot sizing and scheduling (with initial inventory)
A. Kimms

100 Minimizing mean tardiness subject to unspecified minimum number tardy for a single machine
M. Ben-Daya, S.O. Duffuaa and A. Raouf

108 A heuristic algorithm for the Asymmetric Capacitated Vehicle Routing Problem
D. Vigo

127 Optimal access control for broadband services: Stochastic knapsack with advance information
S.Y. Chiu, L. Lu and L.A. Cox, Jr.

135 Solving the failure-to-fit problem for plant layout: By changing department shapes and sizes
J.-L. Lin, B. Foote, S. Pulat, C.-H. Chang and J.Y. Cheung

147 Analysis of a synchronization station for the performance evaluation of a kanban system with a general arrival process of demands
M. Di Mascolo

164 On the M/G/1 machine interference model with spares
U.C. Gupta and T.S.S. Srinivasa Rao

172 Preemptive scheduling in a two-stage multiprocessor flow shop is NP-hard
J.A. Hoogeveen, J.K. Lenstra and B. Veltman

176 Optimal expansion of capacitated transshipment networks
R.K. Ahuja, J.L. Batra, S.K. Gupta and A.P. Punnen

185 An interactive approach for vector optimization problems
M.L. Hussein and F.S. Abd El-Ghaffar

193 Using aspiration levels in an interactive interior multiobjective linear programming algorithm
A. Abel and P. Korhonen

202 Using approximate gradients in developing an interactive interior primal–dual multiobjective linear programming algorithm
A. Arbel and S.S. Oren

212 A note on programming problems with linear-plus-linear-fractional objective functions
J. Hirche

215 Comment on D.J. White, "A characterization of the feasible set of objective function vectors in linear multiple objective problems". *European Journal of Operational Research* 52 (1991) 361–366
A.V. Lotov

221 Backtracking of jobs in one-dimensional machine location problems. *European Journal of Operational Research* 85 (1995) 593–609
B.R. Sarker, W.E. Wilhelm, G.L. Hogg and M.-H. Han

223 The management of congestion
A. van Ackere

226 Pricing, routing, and incentive compatibility in multiserver queues
R.M. Bradford
237 Cost of congestion, operational efficiency and management accounting
K.R. Balachandran and S. Radhakrishnan
246 An appointment-based service center with guaranteed service
Y.M. Babad, M. Dada and A.N. Saharia
259 Manufacturing lead times, system utilization rates and lead-time-related demand
Z.K. Weng
269 A lot sizing model with queueing delays: The issue of safety time
M.R. Lambrecht, S. Chen and N.J. Vandaele
277 Optimizing steady state Markov chains by state reduction
W.K. Grassmann

285 A generalized maintenance model for stochastically deteriorating equipment
W. Stadje and D. Zuckerman
302 Capacity planning under different inspection strategies
H. Gurnani, Z. Drezner and R. Akella
313 Optimal time varying lot-sizing models under inflationary conditions
M.A. Hariga and M. Ben-Daya
326 Integrated multi-item production–inventory systems
A. Arreola-Risa
341 Distribution planning for a divergent depotless two-echelon network under service constraints
J.H.C.M. Verrijdt and A.G. de Kok
355 Modelling setup times, process batches and transfer batches using activity network logic
E.L. Demeulemeester and W.S. Herroelen
366 Task scheduling with and without communication delays: A unified approach
V. Krishnamoorthy and K. Efe
380 A decision model for interdependent information system project selection
R. Santhanam and G.J. Kyparisis
400 A note on an iterative forward/backward scheduling technique with reference to a procedure by Li and Willis
L. Özdamar and G. Ulusoy
408 Comparative studies in interactive multiple objective mathematical programming
Y. Aksoy, T.W. Butler and E.D. Minor, III
423 An O(m log n) algorithm for the max + sum spanning tree problem
A.P. Punnen and K.P.K. Nair
427 A Thurstonian view of the analytic hierarchy process
D.B. MacKay, W.M. Bowen and J.L. Zinnes

445 The application of fuzzy integrals in multicriteria decision making (Invited Review)
M. Grabisch
457 A note on the use of PROMETHEE multicriteria methods
W. De Keyser and P. Peeters
473 Equivalence and implementation of alternative methods for determining returns to scale in data envelopment analysis
R.D. Banker, H. Chang and W.W. Cooper
482 Efficiency bounds in Data Envelopment Analysis
R.H. Green, J.R. Doyle and W.D. Cook
491 Towards an optimal model of food nutrition structure relating to production development for the region of the middle-lower reach of the Yangtze in China
C. Haitao, Z. Hongyan, L. Xuehong and L. Qingping
496 On the robustness of the bowl phenomenon
F.S. Hillier and K.C. So
516 A general lower bound for the makespan problem
S.T. Webster
525 A multiple-tree search procedure for the resource-constrained project scheduling problem
W.P. Simpson III and J.H. Patterson
556 A neural network approach to facility layout problems
K. Tsuchiya, S. Bharitkar and Y. Takefuji

564 A heuristic for blocking flow algorithms
J.L. Träff
570 An amalgation of games
P. Borm, I. Garcia-Jurado, J. Potters and S. Tijs
581 Nonparametric econometric modelling: A neural network approach
S. Wang
593 Optimal batch size and raw material ordering policy for a production system with a fixed-interval, lumpy demand delivery system
B.R. Sarker and G.R. Parija
609 LP relaxation of the two dimensional knapsack problem with box and GUB constraints
A. Bagchi, N. Bhattacharyya and N. Chakravarti
618 Generalized optimal designs and contingency plans in linear systems
Y. Shi, P.-L. Yu and D. Zhang
642 Auxiliary tool allocation in flexible manufacturing systems
T.S. Atan and R. Pandit
660 The joint distribution of the number of occurrences of two interrelated Poisson processes
B.P. Cuffe and M.F. Friedman
668 Some notes on the time-variant Lyapunov theory
S. Molnár and F. Szidarovszky
671 A comment on "Grey integer programming: an application to waste management planning under uncertainty" by Guo H. Huang, Brian W. Baetz, Gilles G. Patry. *European Journal of Operational Research* 83 (1995) 594–620
L. Jenkins
672 Contents Volume 89